

**AIR LIQUIDE WELDING FRANCE**

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Pagina 1 din 1

# Product Certificate

<b>Customer:</b>	<b>Certificate No.:</b>	<b>Order No.:</b>	<b>Delivery Note:</b>
Fro-Air Liquide Welding Italia S.p.A. LOC CASALMENINI NO. 3 37010 RIVOLI VERONESE VERONA / ITALY ABN INTERNATIONAL FZCO P.O. BOX 17927, JEBEL ALI FREEZONE-DUBAI UNITED ARAB EMIRATES	1537		
<b>Trade Name:</b>	<b>Date:</b>	<b>Quantity:</b>	<b>UM:</b>
SAFER NF 510S 2,50X0350XCBOX	04/09/15	12.30	KG Kilogramme
<b>Classification:</b>	<b>Batch No.:</b>		
EN ISO 2560-A - E 42 5 B 4 2 H5 AWS A 5.1 - E 7018-1 H4	371528218		

Lot classification C3 according to ASME CODE, Section II, Part C, SFA/AWS A5.01, level of testing Schedule J  
 Core Wire heat number: 448140

We confirm following properties for the welding filler metals delivered by us.

**Chemical analysis:**

Certificate type EN 10 204-3.1 WELD METAL

	C	Mn	Si	P	S	Cr	Ni	Mo	V	Mn+Ni+Cr+ +Mo+V
Obtained Values	0.073	1.23	0.345	0.011	0.007	0.048	0.037	0.007	0.011	1.337
AWS A5.1 requirements *	0.15	1.60	0.75	0.035	0.035	0.20	0.30	0.30	0.08	1.75

  

	Cu									
Obtained Values	0.029									
AWS A5.1 requirements *										

\* Single value is maximum

Meets Table-7.  
 as well as  
 clause 10,  
 of SFA  
 5.1.

**Mechanical Properties:**

Certificate type EN 10 204-3.1 WELD METAL

	Tensile test according to EN ISO 6892-1					Impact Strength Test according to EN ISO 148-1		
	Test Temp.	Yield Strength ReH	Tensile strength	Elongation	Z	Test Temp.	Impact Strength	Heat treatment
	°C	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%	%	°C	Joule (Charpy-V)	
Obtained Values	+20	505	582	30		-30 170; 165; 167; 171; 173; av. 169 -46 158; 155; 161; 156; 160; av. 158	PWHT 600°C / 4 hours	
AWS A5.1 requirements	+20	≥ 400	≥ 490	≥ 22				

Meets clause  
 3.1 of SFA 5.1.

**Humidity : / Diffusible hydrogen in the deposited metal:**

Certificate type: EN 10 204-3.1 WELD METAL

	HD (ml/100g)	H2O Content (%) / 950°C
Obtained Values	2.1	0.07
AWS A5.1 requirements	≤ 4	≤ 0,30

Soundness X-ray test:  
 SATISFACTORY

04/09/2015

Your Contact Person :  
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